

Notice: Pursuant to s. NR 217.18, Wis. Adm. Code, this form must be completed and submitted to the Department at the time of the reissuance of an existing WPDES (Wisconsin pollutant discharge elimination system) permit to request adaptive management for phosphorus water quality based effluent limits (WQBEL). Failure to provide all requested information may result in denial of your request. Personal information collected will be used for administrative purposes and may be provided to requestors to the extent required by Wisconsin Open Records law [ss. 19.31-19.39, Wis. Stats.].

Type of Request:

- This is the formal adaptive management request as required in s. NR 217.18(2)
- This is a preliminary adaptive management request (to be submitted as part of facility planning.)

Facility and Permit Information

Facility Name City of Beaver Dam Wastewater Treatment Plant		WPDES Permit No. WI - 0023345-09-1	
Facility Address 108 Myrtle Road	City Beaver Dam	State WI	ZIP Code 53916
Receiving Water Beaver Dam River			

Owner Contact Information

Last Name Minnema	First Name Rob	MI	Phone No. (incl. area code) (920) 887-4625
Street Address 108 Myrtle Road			FAX Number (920) 887-4627
City Beaver Dam	State WI	ZIP Code 53916	Email address rminnema@cityofbeaverdam.com

Facility Information

Provide listed information for each lagoon or pond basin

Required for AM Request	Wis. Administrative Code Reference	Conclusion	Evidence/Source of information (attach as needed)
1. NPS contribute at least 50% of total P contribution	s. NR 217.18(2)(b)	<input checked="" type="checkbox"/> NPS contributes at least 50% <input type="checkbox"/> NPS DOES NOT contribute at least 50%	2019 Final Compliance Alternatives Plan
2. WQBEL Requires Filtration	s. NR 217.18(2)(c)	<input checked="" type="checkbox"/> Filtration required <input type="checkbox"/> Filtration NOT required	2019 Final Compliance Alternatives Plan
3. AM Plan	s. NR 217.18(2)(d)	<input checked="" type="checkbox"/> Plan is Included – Page 3 <input type="checkbox"/> Plan is NOT Included <i>For a preliminary adaptive management request, AM plan not required</i>	2019 Final Compliance Alternatives Plan

Facility Operation and Performance

- Current P removal capability** – If the facility is currently required by a WPDES permit to monitor effluent phosphorus (P) provide a summary of the influent and effluent annual average P concentrations for each of the past three (3) years. If permit required P data is not available, the applicant should provide any other P data that may be applicable and available. If no data is available, the Department may estimate the P effluent concentration by based on data from other similar facilities.

Average effluent phosphorus concentration: 0.8 mg/L. For details, see 2019 Final Compliance Alternatives Plan.

2. **Facility Operation** – Provide a summary description of overall facility operation. If not a continuously discharging facility, describe storage procedures and the time periods when effluent discharge occurs.

Ferric chloride addition for chemical phosphorus removal, no tertiary filtration. For details, see 2019 Final Compliance Alternatives Plan.

3. **Previous Studies** – Reference or attach any facility planning or evaluation study that evaluated facility performance capabilities (Note – Only include studies that are recent, within 5 years, or otherwise applicable for the evaluation of the existing facility and current conditions).

See 2019 Final Compliance Alternatives Plan.

Adaptive Management Plan (s. NR 217.18(d))

This section should summarize the Adaptive Management Plan for internal and external review. A complete Adaptive Management Plan should be attached. Note: If this is a preliminary adaptive management request, this section is not required.

Watershed	Percent Contribution of Applicant Discharge
Beaver Dam Watershed	16% (PRESTO Report)

Action Area (include map)

Beaver Dam Watershed: Rock River TMDL Reaches 34, 33, 82, 32. Map is included in 2019 Final Compliance Alternatives Plan.

Watershed Characteristics and Timeline Justification The Beaver Dam Watershed includes the City of Beaver Dam, the Village of Fox Lake, and the Village of Randolph. The watershed is dominated by agriculture, especially corn production, with several large lakes (Beaver Dam Lake, Fox Lake). To meet the water quality criterion, significant reductions are required, lasting for at least two to three permit terms.

- Key Proposed Actions**
1. Wastewater Treatment Plant Improvements: reduce effluent phosphorus from 0.8 mg/L to 0.4 mg/L.
 2. Agricultural and Land Practices: Cover crops, reduced tillage, etc.
 3. Lake and Shoreline Improvements: carp management, shoreline protection, etc.

Key Goals and Measures for Determining Effectiveness

1. Reduce annual phosphorus loadings by approximately 7,400 pounds by end of second permit term.
2. Monitor phosphorus at end of Reach 34 (Beaver Dam River at CTH S in Leipsig), with goal of meeting water quality criterion of 0.075 mg/L.
3. Utilize resources effectively, with goal of Adaptive Management remaining the most cost effective compliance option.

Partner(s)

City of Beaver Dam, Beaver Dam Lake Improvement Association, Applied Technologies, Inc., Dodge County Farmers For Healthy Soil Healthy Water, County Land and Water Conservation Departments, MSA Professional Services, USDA, WDNR, etc. See 2019 Final Compliance Alternatives Plan.

Watershed Adaptive Management Request

Form 3200-139 (1/12)

Page 3 of 3

Funding Sources

No program-wide funding has been identified. USDA partnership to cost-share on practices.

Adaptive Management Request and Certification

Based on the information provided, I am requesting the Watershed Adaptive Management option to achieve compliance with phosphorus water quality standards in accordance with s. NR 217.19, Wis. Adm. Code.

I certify that the information provided with this request is true, accurate and complete to the best of my knowledge.

Print or type name of person submitting request*

Rob Minnema

Title

Director of Utilities

Signature of Official

Rob Minnema

Date Signed

April 30, 2019

*Must be an Authorized Representative for the treatment facility